



ATI

ABRASIVE TECHNOLOGY INDUSTRIES, Co.
شركة مصانع تكنولوجيا المواد الكاشطة

Cutting & Grinding Wheels

URED IN
2013 SAFETY REGULA

ATI® SWORDS



180 x
7"

Italian Technology...

Introduction

ATI provides the whole range of Cutting-off and grinding wheels for both portable & fixed Machines. Our Swords brand provides superior performance in the most stringent working environment through a longer life wheel that gives the shortest cutting cycles with high stock removal and at lowest cost possible.

Being supported by the Italian manufacturing technology and recipes; ATI have permitted a selective optimization for diverse application needs. Each design meets all practical requirements, allowing the user to find the ideal cut-off wheel for any type of work.

ATI Vision: "Being a hub for the international abrasives trading, operating from the KSA"

ATI Mission: "Produce & develop abrasive products that provide effective & efficient solutions for various fields & levels of industrial & construction applications, having the flexibility to customize our products & logistic services; ATI will provide abrasive products for local & international customers along with logistic services for those who export their brands internationally"

Values: "ATI is committed for Professionalism, Quality & Transparency in dealing with our valuable customers"

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Pictograms

Applications (MATERIALS)

Metal



Stainless steel



Aluminium



Alloy Steel



Stone



Cast Iron



Safety Symbols



Wear safty mask



Wear dust mask



Use ear muffs



Wear safty glasses



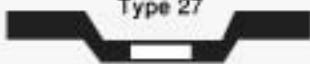
Wear safty gloves



Overspeed Wheel

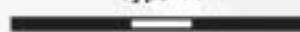
Shape Specification System

Type 27



Depressed centre grinding wheels. Available in diameters 76-230mm for hand-held machines.

Type 41



Flat cutting-off wheels Available in diameters 40-400mm for hand-held machines & 250- 400mm for stationary machines.

Type 42



Depressed centre cutting-off wheels. Available in diameters 76-230mm for hand-held machines

Application: Grinding

Application: Cutting- off

Application: Cutting- off

Machines



Cutting with portable machine



Grinding with portable machine



Cutting with stationary machine

Symbols & Designations of the Wheel

Information & Description of the disc

- ① European Safety standards EN: 12413
- ② " **ATI SWORDS** " Our Premium trusted brand
- ③ Usage
- ④ Disc dimension
- ⑤ Product barcode
- ⑥ Safety Instructions
- ⑦ Specifications & max rotation speed
- ⑧ Application

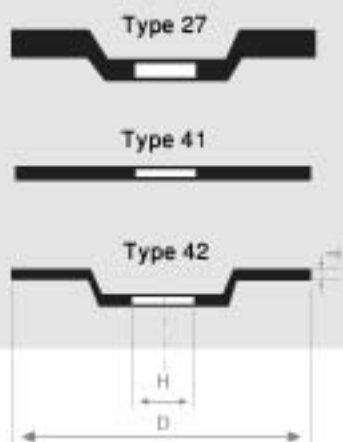


Disc Anatomy

- ① Bore ring
- ② Label
- ③ Reinforcement
- ④ Abrasive Grain
- ⑤ Reinforcement
- ⑥ (Glass fabric with paper)

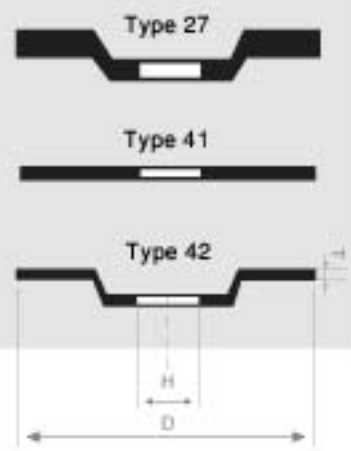


Metal Applications



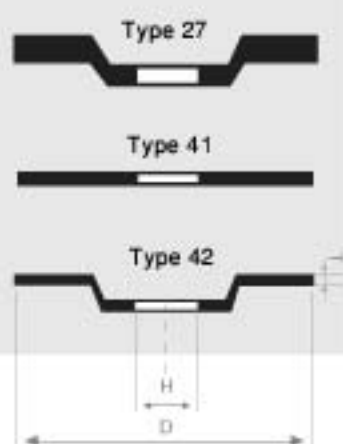
Usage	Item #	Size In Inch	Dimensions D x T x B	Formula	Max RPM	Pieces / Carton	Machine type
Cutting	111030	4	100x3x16	A36 Q BF	15280	100	
	111132	4.5	115x3.2x22	A30 Q BF	13300	100	
	111232	5	125x3.x222	A30 Q BF	12200	50	
	111832	7	180x3.2x22	A24 Q BF	8500	50	
	112332	9	230x3.2x22	A24 Q BF	6500	25	
	113028	12	300x2.8x25.4	A36 Q BF	5100	20	
	113032	12	300x3.2x25.4	A30 Q BF	5100	20	
	113038	12	300x3.8x25.4	A24 Q BF	5100	20	
	113528	14	350x2.8x25.4	A36 Q BF	4400	20	
	113532	14	350x3.2x25.4	A30 Q BF	4400	20	
	113538	14	350x3.8x25.4	A24 Q BF	4400	20	
	114035	16	400x3.5x25.4	A36 Q BF	3800	15	
Grinding	211064	4	100x6.4x16	A30 P BF	15280	50	
	211164	4.5	115x6.4x22	A24 P BF	13300	50	
	211264	5	125x6.4x22	A24 P BF	12200	20	
	211864	7	180x6.4x22	A24 P BF	8500	25	
	212364	9	230x6.4x22	A24 P BF	6500	10	

Stainless Steel Applications



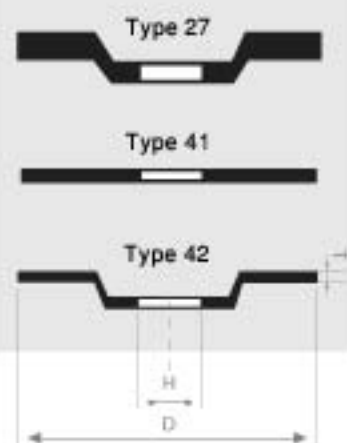
Usage	Item #	Size In Inch	Dimensions D x T x B	Formula	Max RPM	Pieces / Carton	Machine type
Cutting	121030	4	100x3x16	AX36 Q BF	15280	100	
	121132	4.5	115x3.2x22	AX30 Q BF	13300	100	
	121232	5	125x3.x222	AX24 Q BF	12200	50	
	121832	7	180x3.2x22	AX24 Q BF	8500	50	
	122332	9	230x3.2x22	AX24 Q BF	6500	25	
	123028	12	300x2.8x25.4	AX36 Q BF	5100	20	
	123032	12	300x3.2x25.4	AX30 Q BF	5100	20	
	123038	12	300x3.8x25.4	A24 Q BF	5100	20	
	123528	14	350x2.8x25.4	AX36 Q BF	4400	20	
	123532	14	350x3.2x25.4	AX30 Q BF	4400	20	
	123538	14	350x3.8x25.4	AX24 Q BF	4400	20	
	124035	16	400x3.5x25.4	AX24 Q BF	3800	15	
Grinding	221064	4	100x6.4x16	AX30 P BF	15280	50	
	221164	4.5	115x6.4x22	AX24 P BF	13300	50	
	221264	5	125x6.4x22	AX24 P BF	12200	20	
	221864	7	180x6.4x22	AX24 P BF	8500	25	
	222364	9	230x6.4x22	AX24 P BF	6500	10	

Aluminum Applications



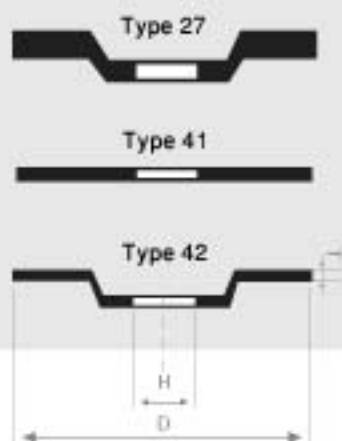
Usage	Item #	Size In Inch	Dimensions D x T x B	Formula	Max RPM	Pieces / Carton	Machine type
Cutting	131030	4	100x3x16	CA36 Q BF	15280	100	
	131132	4.5	115x3.2x22	CA30 QAL BF	13300	100	
	131232	5	125x3.x222	CA24 QAL BF	12200	50	
	131832	7	180x3.2x22	CA24 QAL BF	8500	50	
	132332	9	230x3.2x22	CA24 QAL BF	6500	25	
	133028	12	300x2.8x25.4	CA36 QAL BF	5100	20	
	133032	12	300x3.2x25.4	CA30 QAL BF	5100	20	
	133038	12	300x3.8x25.4	A24 QAL BF	5100	20	
	133528	14	350x2.8x25.4	CA36 QAL BF	4400	20	
	133532	14	350x3.2x25.4	CA30 QAL BF	4400	20	
	133538	14	350x3.8x25.4	CA24 QAL BF	4400	20	
	134035	16	400x3.5x25.4	CA24 QAL BF	3800	15	
Grinding	231064	4	100x6.4x16	CA30 P BF	15280	50	
	231164	4.5	115x6.4x22	CA24 P BF	13300	50	
	231264	5	125x6.4x22	CA24 P BF	12200	20	
	231864	7	180x6.4x22	CA24 P BF	8500	25	
	232364	9	230x6.4x22	CA24 P BF	6500	10	

Stone Applications



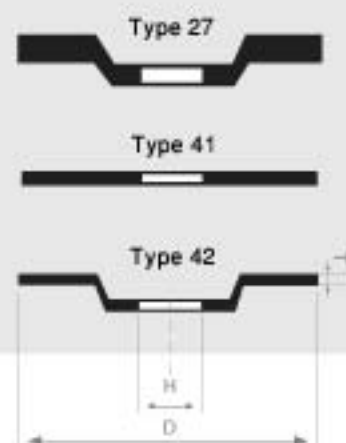
Usage	Item #	Size In Inch	Dimensions D x T x B	Formula	Max RPM	Pieces / Carton	Machine type
Cutting	141030	4	100x3x16	C36 R BF	15280	100	
	141132	4.5	115x3.2x22	C36 R BF	13300	100	
	141232	5	125x3.x222	C36 R BF	12200	50	
	141832	7	180x3.2x22	C30 R BF	8500	50	
	142332	9	230x3.2x22	C30 R BF	6500	25	
	143028	12	300x2.8x25.4	C36 R BF	5100	20	
	143032	12	300x3.2x25.4	C30/24 R BF	5100	20	
	143038	12	300x3.8x25.4	C24 R BF	5100	20	
	143528	14	350x2.8x25.4	C36 R BF	4400	20	
	143532	14	350x3.2x25.4	C30/24 R BF	4400	20	
	143538	14	350x3.8x25.4	C24 R BF	4400	20	
	144035	16	400x3.5x25.4	C30/24 R BF	3800	15	
Grinding	241064	4	100x6.4x16	C30 R BF	15280	50	
	241164	4.5	115x6.4x22	C30 R BF	13300	50	
	241264	5	125x6.4x22	C30 R BF	12200	20	
	241864	7	180x6.4x22	C24 R BF	8500	25	
	242364	9	230x6.4x22	C24 R BF	6500	10	

Cast Iron Applications



Usage	Item #	Size In Inch	Dimensions D x T x B	Formula	Max RPM	Pieces / Carton	Machine type
Cutting	151030	4	100x3x16	SFA36 P BF	15280	100	
	151132	4.5	115x3.2x22	SFA30 P BF	13300	100	
	151232	5	125x3.x222	SFA30 P BF	12200	50	
	151832	7	180x3.2x22	SFA24 P BF	8500	50	
	152332	9	230x3.2x22	SFA24 P BF	6500	25	
	153028	12	300x2.8x25.4	SFA36 P BF	5100	20	
	153032	12	300x3.2x25.4	SFA30 P BF	5100	20	
	153038	12	300x3.8x25.4	SFA24 P BF	5100	20	
	153528	14	350x2.8x25.4	SFA36 P BF	4400	20	
	153532	14	350x3.2x25.4	SFA30 P BF	4400	20	
	153538	14	350x3.8x25.4	SFA24 P BF	4400	20	
	154035	16	400x3.5x25.4	SFA36 P BF	3800	15	
Grinding	251064	4	100x6.4x16	SFA30 P BF	15280	50	
	251164	4.5	115x6.4x22	SFA24 P BF	13300	50	
	251264	5	125x6.4x22	SFA24 P BF	12200	20	
	251864	7	180x6.4x22	SFA24 P BF	8500	25	
	252364	9	230x6.4x22	SFA24 P BF	6500	10	

Alloy Steel Applications



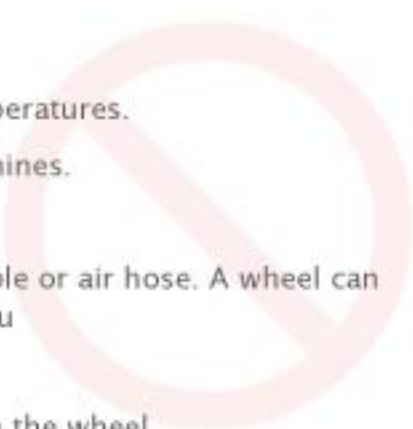
Usage	Item #	Size In Inch	Dimensions D x T x B	Formula	Max RPM	Pieces / Carton	Machine type
Cutting	161030	4	100x3x16	ZA36 Q BF	15280	100	
	161132	4.5	115x3.2x22	ZA30 Q BF	13300	100	
	161232	5	125x3.x222	ZA24 Q BF	12200	50	
	161832	7	180x3.2x22	ZA24 Q BF	8500	50	
	162332	9	230x3.2x22	ZA24 Q BF	6500	25	
	163028	12	300x2.8x25.4	ZA36 Q BF	5100	20	
	163032	12	300x3.2x25.4	ZA30 Q BF	5100	20	
	163038	12	300x3.8x25.4	A24 Q BF	5100	20	
	163528	14	350x2.8x25.4	ZA36 Q BF	4400	20	
	163532	14	350x3.2x25.4	ZA30 Q BF	4400	20	
	163538	14	350x3.8x25.4	ZA24 Q BF	4400	20	
	164035	16	400x3.5x25.4	ZA24 Q BF	3800	15	
Grinding	261064	4	100x6.4x16	ZA30 P BF	15280	50	
	261164	4.5	115x6.4x22	ZA24 P BF	13300	50	
	261264	5	125x6.4x22	ZA24 P BF	12200	20	
	261864	7	180x6.4x22	ZA24 P BF	8500	25	
	262364	9	230x6.4x22	ZA24 P BF	6500	10	

CORRECT STORAGE

Please store in dry and well-ventilated premises without major temperature changes (temperatures between 10° and 30°C and max. 70 % relative humidity). This will help preserve the physical properties of reinforced resin bonded grinding wheels for up to three years, up to two years for non-reinforced ones. The storage premises should be as close to the place of use as possible in order to avoid mechanical damage to the wheels during transport, as well as moisture condensation while in transit on colder days. Please use appropriate stands, shelves, drawers and boxes for storing various types of grinding wheels. - Store

Dos & Don'ts

1. **DO** always follow instructions for correct storage.
2. **DO** always visually inspect grinding wheels before mounting for possible damage during transport and eliminate damaged ones.
3. **DO** always use a safety guard, which should cover nearly one half of the grinding wheel.
4. **DO** always use non-reinforced cutting-off wheels on fixed stationary machines.
5. **DO** always switch off the power at the supply and/or unplug the machine before changing the wheel.
6. **DO** always use the tools supplied by the machine manufacturer to change the wheel.
7. **DO** always ensure that the spindle speed of the machine is no higher than the operating speed marked on the wheel.
8. **DO** always use the correct wheel mounting flanges for grinding wheels and check that they are undamaged, clean and free of burrs.
9. **DO** always use blotters between the mounting flanges and the wheel sides for soft mounting of flat cutting-off wheels.
10. **DO** always allow newly mounted wheels to run

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1. **DON'T** store wheels in a damp atmosphere or in extreme temperatures.
 2. **DON'T** use non-reinforced cutting-off wheels on portable machines.
 3. **DON'T** handle wheels roughly.
 4. **DON'T** drop portable machines or lower to the floor by the cable or air hose. A wheel can be easily cracked by the weight of the machine if it is pu
 5. **DON'T** mount a damaged wheel.
 6. **DON'T** EVER exceed the maximum operating speed marked on the wheel.
 7. **DON'T** force a wheel onto a machine spindle.
 8. **DON'T** use mounting flanges which are incorrect, damaged, dirty or worn out.
 9. **DON'T** tighten the mounting nut or locking flange excessively. This can distort the flanges.
 10. **DON'T** use blotters for soft mounting of depressed-centre concave wheels.